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OCT 23 1997
PATENT & TRADEMARK OFFICE

FORM PTO 1449

	U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE	ATTY. DOCKET NO.	APPLICATION NO.
		MASIMO.056A	08/834,194

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(USE SEVERAL SHEETS IF NECESSARY)

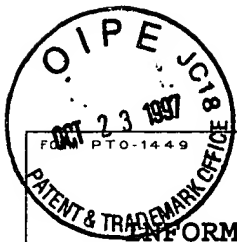| APPLICANT |
|---|
| Mohamed K. Diab, et al. |

FILING DATE	GROUP
April 14, 1997	Unknown

U.S. PATENT DOCUMENTS

EXAMINER INITIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
✓		Re 35122	12/19/95	Corenman et al.			
✓		3647299	03/07/72	Lavallee			
✓		3704706	12/05/72	Herczfeld et al.			
✓		4063551	12/20/77	Sweeney			
✓		4086915	05/02/78	Kofsky et al.			
✓		4095117	06/13/78	Nagy			
✓		4129124	12/12/78	Thalmann			
✓		4308456	12/29/81	Van Der Gaag et al.			
✓		4407290	10/04/83	Wilber			
✓		4537200	08/27/85	Widrow			

FOREIGN PATENT DOCUMENTS

		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES	NO
✓		0102816	03/14/84	Europe				
✓		0329196	08/23/89	Europe				
✓	WO	9409698	05/11/94	PCT				
✓	EP	0743042	11/20/96	Europe				
✓	EP	0744154	11/27/96	Europe				

OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

✓	A.	Widrow, Bernard et al., Chapter 2: "The Adaptive Linear Combiner", Adaptive Signal Processing, Prentice-Hall, Inc., pp. 15-26, 1985.
✓	B.	Widrow, Bernard et al., Chapter 12: "Adaptive Interference Canceling", Adaptive Signal Processing, Prentice-Hall, Inc., pp. 302-367, 1985.
✓	C.	Tremper, Kevin K. et al., "Pulse Oximetry: Technical Aspects of Machine Design" by Jonas A. Pologe, Advances in Oxygen Monitoring, Little, Brown and Company, 1987, pp. 137-153.

EXAMINER	DATE CONSIDERED
	6/8/58

*EXAMINER: INITIAL IF REFERENCE CONSIDERED, WHETHER OR NOT CITATION IS IN CONFORMANCE WITH MPEP 609; DRAW LINE THROUGH CITATION IF NOT IN CONFORMANCE AND NOT CONSIDERED. INCLUDE COPY OF THIS FORM WITH NEXT COMMUNICATION TO APPLICANT.

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✓		4 6 4 9 5 0 5	03/10/87	Zinser, Jr. et al.			
✓		4 6 6 0 1 5 1	04/21/87	Chipman et al.			
✓		4 7 7 3 4 2 2	09/27/88	Isaacson et al.			
✓		4 7 9 3 3 6 1	12/27/88	DuFault			
✓		4 7 9 9 4 9 3	01/24/89	DuFault			
✓		4 8 0 0 4 9 5	01/24/89	Smith			
✓		4 8 0 2 4 8 6	02/07/89	Goodman et al.			
✓		4 8 2 4 2 4 2	04/25/89	Frick et al.			
✓		4 8 4 6 1 8 3	07/11/89	Martin			
✓		4 8 4 8 9 0 1	07/18/89	Hood, Jr.			

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OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

✓	D.	Klimasauskas, Casey, "Neural Nets and Noise Filtering" Article, *Dr. Dobb's Journal*, January 1989, pp. 32-34, 36-38, 42, 47, 49, 96, 98, 100.
✓	E.	Neuman, Michael R., "Pulse Oximetry: Physical Principles, Technical Realization and Present Limitations", Continuous Transcutaneous Monitoring, Plenum Press, New York, 1987, pp. 135-144.
✓	F.	Severinghaus, John W. M.D., "Pulse Oximetry Uses and Limitations", ASA Convention 1989, New Orleans.

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✓		4 8 5 4 6 9 9	08/08/89	Edgar, Jr.			
✓		4 8 5 9 0 5 7	08/22/89	Taylor et al.			
✓		4 8 6 0 7 5 9	08/29/89	Kahn et al.			
✓		4 8 6 3 2 6 5	09/05/89	Flower et al.			
✓		4 8 6 7 5 7 1	09/19/89	Frick et al.			
✓		4 8 6 9 2 5 3	09/26/89	Craig, Jr. et al.			
✓		4 8 6 9 2 5 4	09/26/89	Stone et al.			
✓		4 8 8 3 3 5 3	11/28/89	Hausman et al.			
✓		4 8 9 2 1 0 1	01/09/90	Cheung et al.			
✓		4 9 0 7 5 9 4	03/13/90	Muz			

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OTHER DOCUMENTS (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

✓	G.	Cohen, Arnon Ph.D., "Volume I: Time and Frequency Domains Analysis", Biomedical Signal Processing, CRC Press, Inc., pp. 152-159.
✓	H.	Harris, Fred et al., "Digital Signal Processing With Efficient Polyphase Recursive All-Pass Filters" Article, Presented at International Conference on Signal Processing Florence, Italy, Sept. 4-6, 1991.
✓	I.	Rabiner, Lawrence R. et al., "Theory and Approximation of Infinite Impulse Response Digital Filters", Prentice Hall Inc., Englewood Cliffs, NJ, 1975, p. 260.

EXAMINER	DATE CONSIDERED
signature	6/8/58

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✓		4 9 1 1 1 6 7	03/27/90	Corenman et al.	—		
✓		4 9 2 7 2 6 4	05/22/90	Shiga et al.	—		
✓		4 9 2 8 6 9 2	05/29/90	Goodman et al.	—		
✓		4 9 3 4 3 7 2	06/19/90	Corenman et al.	—		
✓		4 9 4 8 2 4 8	08/14/90	Lehman	—		
✓		4 9 5 5 3 7 9	09/11/90	Hall	—		
✓		4 9 5 6 8 6 7	09/11/90	Zurek et al.	—		
✓		5 0 0 3 9 7 7	04/02/91	Suzuki et al.	—		
✓		5 0 5 7 6 9 5	10/15/91	Hirao et al.	—		
✓		5 1 9 0 0 4 7	03/02/93	Odagiri et al.	—		

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OTHER DOCUMENTS   (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

✓	J.	Mook, G.A. et al., "Spectrophotometric determination of oxygen saturation of blood independent of the presence of indocyanine green", Cardiovascular Research, Volume 13, 1979, pp. 233-237.
✓	K.	Melnikof, Steve, "Neural Networks for Signal Processing: A Case Study" Article, Dr. Dobb's Journal, January 1989, pp. 36-37.
✓	L.	Mook, G.A. et al., "Wavelength dependency of the spectrophotometric determination of blood oxygen saturation", Clinical Chemistry Acta, Volume 26, 1969, pp. 170-173.

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✓		5 2 7 3 0 3 6	12/28/93	Kronberg et al.			
✓		5 2 9 7 5 4 8	03/29/94	Pologe			
✓		5 3 0 8 9 1 9	05/03/94	Minnich			
✓		5 3 9 8 6 8 0	03/21/95	Polson et al.			
✓		5 4 5 8 1 2 8	10/17/95	Polanyi et al.			
✓		5 4 9 0 5 0 5	02/13/96	Diab et al.			
✓		5 5 1 5 1 6 9	05/07/96	Cargill et al.			
✓		5 5 8 8 4 2 7	12/31/96	Tien			
✓		5 6 3 2 2 7 2	05/27/97	Diab et al.			

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OTHER DOCUMENTS   (INCLUDING AUTHOR, TITLE, DATE, PERTINENT PAGES, ETC.)

M. ✓		Brown, David P., "Evaluation of Pulse Oximeters using Theoretical Models and Experimental Studies" Masters Thesis, University of Washington, 1987.
	✗	Haykin, Simon, Adaptive Filter Theory, Prentice Hall, Englewood Cliffs, NJ, 1985.
	✗	Widrow, Bernard, Adaptive Signal Processing, Prentice Hall, Englewood Cliffs, NJ, 1985.

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